REMARKS

Attached hereto are the requested copies of Table 1 and Table 2. Reference to Table 3 has been cancelled from the specification as above. No new matter has been added. Entry and allowance of all the claims (pointed out in the Response filed June 9, 2005) are requested.

Since Applicant has presented a novel, unique and nonobvious invention, reinstatement and allowance of all the claims are respectfully requested.

Respectfully,

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August 22, 2005

p.4

TIC: 6201003.D 30m DB5.0.25, Lm. Coal Pyrolysis liquids 250,um End Time Start Time Type Width Area Peak# Ret Time 3.361 3.171 30393316 0.048 BB 3.222 1 14.317 - Pienel 13.912 0.076 313283607 BB 2 14.154 16.8525-cresol 16.512 226782918 0.062 3456 16.767 BV 17.740-p-cresol 17.192 0.099 645315429 BV 17.528 18.701 18.440 48860748 0.069 VB 18.514 19.753 -deadly phenol 19.406 59120967 BV 0.082 19.588 20.065-2,42, methylphen. 19.753 322802782 0.098 PV 7 19.936 20.739-z, wedinethylphens. 20.341 331638422 0.104 BB 8 20.590 20.772 20.948 czphenol 36879860 0.060 BB 9 20.873 21.184 naphthalene 21.040 BV0.059 33990136 10 21.099 21.184 21.417 Cz phenol 90845735 0.077 PV 11 21.356 21.668 dihydroxy beneen 21.417 136310629 0.151 VV 12 21.527 اسىم و2 510 . 22 22.333 0.076 64112416 BV13 22.439 الاستعلم و² 829 . 22 22.634 68611382 0.062 PV 22.758 14 23.553 ? 23.019 240115887 0.138 BV 15 23.412 23.712 23.553 47741586 0.079 VV16 23.646 24.458 methy catecul 24.069 207909906 0.170 ∇V 17 24.320 24.605 methyl naphthalena 24.458 79325325 0.076 24.538 VV18 24.742 n-C,3 24.605 38565908 0.055 ∇V 24.653 19 25.117 methyl nophthale. 24.742 118270515 PV 0.125 25.046 20 25.871? 25.659 59603420 0.094 PV 21 25.793 27.083 Czcałewi 26.665 111756150 0.147 BV 22 26.991 27.554 27.310 0.071 74153041 VV 23 27.478 28.318? 28.057 111996448 0.155 VV 28.217 24 29.272 hydrocurbon 28.893 79288182 0.126 ₽B 25 29.150 30.291 n-Cis 212 29.984 71278688 0.066 VV 26 30.134 30.500 - Czn-. Haterie 30.291 38697487 0.092 PV27 30.411 32.800 n-C16 226 32.585 70995925 0.067 VV 28 32.644 33.126 methy naphthal 89973356 32.800 0.131 VV29 33.055 33.917 33.420 99261970 0.146 PV 33.815 30 35.080 hydrocurbun : 34.649 72696374 BV 0.076 31 35.017 35.250 hydrocarben-ole 35.080 58509299 0.06832 W 35.165 36.125 35.818 66195337 0.126 PB 33 35.991 37.419 kydro carbon ele. 49827041 37.184 ∇V 0.077 37.268 34 38.954 Kydrucurbun mir 38.654 44028359 0.096 PV 38.913 35 38.954 39.111 65757311 0.083 VV · 36 39.013 39.323 hydrocarbon - mir 39.111 41825527 0.108 37 39.243 VV 39.464 39.323 31700091 0.078 ∇V 39.407 38 39.804 39.464 82404413 0.206 39 39.576 ∇V 40.503hydrocurbun 40.176 99687158 0.076 40.336 VV 40 40.882 40.614 67313401 0.125 PV 40.790 41 41.001 . 40.882 50579033 0.094 VV42 40.949 41.130 41.001 52058420 0.100 VV 43 41.074 41.535 41.305 94054622 0.075 41.411 VV 44 42.185-hc 41.639 136427968 0.189 PV 42.054 45 42.528 42.185 94923542 0.085 VB 46 42.324 43.181-hc 42.861 163284484 0.090 VV 47 43.116 43.181 43,410 64892843 0.114 VV48 43.301 43.684 43.410 37686533 0.115 PV 49 43.630 43.939-hc 43.684 137793990 0.078 50 VV 43,.830 44.036 43.939 32775013 0.084 VV 51 43.996 44.164 44.036 48161669 0.097 VV 52 44.107 44.318 44.164 54499174 0.084 $\nabla \nabla$ 53 44.260 44.560-hc 44.318 114007997 0.065 VV 44.481 54 44.966 44.795 46641140 0.095 VV 55 44.871 45.161 44.966 74068060 0.050 VV 56 45.083 Table I Identification of the molecular species shown in the Table I Identification of the molecular species shown in the PAGE 4/5 * RCVD AT 8/22/2005 3:43:07 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/33 * DNIS:2738300 * CSID:703 448 7397 * DURATION (mm-ss):01-58

Table 2 NREL Analysis of Gas Sample from Flask No. 3 of Glass System Pyrolysis Test No. 5 of 9-6-96

Analysis Made with MTI Gas Chromatograph by Bob Evans 303 384 5284

			Vapor Press.	
Gas	Percent	ppm	ww if @	°C
N ₂	90	900,000		
CH.	3.5	35,000		
Н ₂	1.8	18,000		
со	0.4	4,000	•	
CO2	1.7	17,000		
Ethane	0.7	7,000	600	-94
Ethylene	0.2	2,000		
Propane	0.2	2,000	600	-48
Propylene	0.16	1,600		
n Butane	0.09	900.	900	3.8
1 Butene	0.03	300		
iso Butene	0.02	200		
cis2 Butene	0.03	300		
trans 2 Butene	0.06	600		
n Pentane	0.05	500	200	2
iso Pentane	0.01	100	200	-5

Note that the above table indicates that any hydrocarbons with vapor pressures less than 200 mm/ 00°C would have condensed out of the pyrolysis gas at the ice-water bath temperature, hence would have been present in the offgas collection flask in concentrations below about 100 ppm. Thus compounds as volatile as pentane were probably present in the liquid product. The analysis of the liquid should show this.